BUILDING TRUST CONSTRUIRE LA CONFIANCE



PRODUCT DATA SHEET

Edition 07.2019/v1 CSC Master Format™ 07 92 13 ELASTOMERIC JOINT SEALANTS

Sikaflex[®]-15 LM

ONE-COMPONENT, LOW MODULUS AND HIGH PERFORMANCE, ELASTOMERIC POLYURETHANE SEALANT

Description	Sikaflex [®] -15 LM is a low modu	ulus, high performance, one-component, polyurethane-based, non-sag elastomeric sealant.					
Where to Use	 Excellent for moving joints i.e. expansion, construction, whether in vertical or horizontal applications. Suitable for use between similar as well as dissimilar materials. Typical applications include joints in panel and wall systems, around window and door frames, reglets, flashings, etc. Exceptional sealant choice for high rise and facade applications where high movement capacity is required. An effective sealant for use in Exterior Insulation Finish Systems (EIFS). 						
Advantages	 Capable of +100 % / -50 % joint movement. Easy and ready to gun. Eliminates time, effort, waste, and equipment cleaning. Cures to a durable, flexible consistency. Excellent cut and tear resistance. Stress relaxation properties. Non-leaching. UL certified to CAN/ULC-S115-05: Standard Method of Firestop Systems and to ANSI/UL 2070: Fire Resistance of Building Joint Systems (FF-S-0037, FW-S-0018, HW-S-0095, WW-S-0060) for use in Canada. Specific joint designs and substrates apply in Canada (see Limitations). Low modulus of elasticity. Excellent adhesion. Bonds to most construction materials, often without primer. Excellent resistance to aging, weathering. Proven in tough climates around the world. Can be painted with water-, oil- and rubber-based paints. Meets Federal Specification TT-S-00230C, Type II, Class A. Meets Federal Specification TT-S-00227E. SWRI validated. USDA approved (chemically acceptable for use in meat and poultry processing areas under federal inspection). Meets ASTM C1382 when used in Exterior Insulation Finish Systems (EIFS) Joints. 						
	 Ministère des Transports du Québec (MTQ) acceptance. 						
	Technical Data Packaging 300 mL (10.1 US fl. oz) cartridge, 24/case; 590 mL (20 US fl. oz) sausage, 20/case						
	Colour	White, Colonial White, Aluminum Grey, Architectural Bronze, Limestone, Black, Dark Bronze, Capitol Tan, Off White, Almond, Beige, Coping Stone, Aluminum Stone, Redwood Tan.				ze, Capitol Tan, Off	
	Yield	Linear Metre of	Sealant per Litre	Linear Feet o	f Sealant per Cartridge		
	Width	Depth		Depth			
	mm (in)	6 (¼)	13 (½)	6 (¼)	13 (½)		
	6 (¼)	24.8		24.4			
	13 (½)	12.4	6.2	12.2	6.1		
	19 (¾)	8.3	4.1	8.2	4.0		
	Shelf Life	Cartridge/sausage: 12 months in original, unopened packaging. Store product at temperatures between 4 and 23 °C (39 and 73 °F). Condition product between 18 and 23 °C (65 and 73 °F) before using.					
	Application Temperature 4 to 38 °C (39 to 100 °F). Sealant should be installed when joint is at mid-range of its anticipated movement.						

	Properties at 23 °C (73 °F)	and 50 % R.H.						
	Service Range	-40 to 77 °C (-40 to 170	°F)					
	Curing Rate	Tack-free time		3 to 6 hours (TT-S-00230C)				
		Tack-free to touch		3 hours				
		Final cure		7 to 10 days				
	Shore A Hardness ASTM D2240							
	21 days	25 ± 5						
	Tensile Properties ASTM D412							
	21 days	Tensile stress		0.86 MPa (125 psi)				
		Elongation at break		700 %				
		Modulus of elasticity	25 %	0.13 MPa (20 psi)				
			50 %	0.24 MPa (35 psi)				
			100 %	0.34 MPa (50 psi)				
	Adhesion in Peel TT-S-00230C							
	Substrate	Peel Strength		Adhesion Loss				
	Aluminum	4.25 N/MM (25 lb/in) 4.25 N/mm (25 lb/in)		0%				
	Concrete	5.1 N/mm (30 lb/in)		0 %				
	Weathering Resistance	Excellent						
	VOC Content	47.9 g/L						
	Chemical Resistance	Good resistance to wate	er, diluted a	cids, and diluted alkalines. Not normally f	or fully immersed conditions.			
	Product properties are typically averag preparation, application, curing and test	es, obtained under laboratory co methods.	onditions. Rea	sonable variations can be expected on-site du	e to local factors, including environment,			
	preparation, appreation, caring and test	memodor						
			· · ·					
Surface	All joint surfaces must be clea	an, sound, dry and frost	-free. Join	t walls must be free of oils, tar, as	phalt, bitumen, grease, paints,			
Preparation	coatings, sealers, curing com	npound residues and ar	ny other f	preign matter that might prevent	t adhesion. Ideally this should			
	be accomplished by mechan	ical means. Bond break	er tape oi	backer rod must be used in bott	om of joint to prevent bond.			
Priming	Priming is not usually nece	ssary. Most substrates	only req	uire priming if testing indicates	a need or where sealant will			
-	be subjected to water imm	ersion after cure. Con	sult Sikaf	lex [®] Primers Product Data Shee	et or contact Sika Canada for			
	additional information							
	Note: Most Exterior Insul	ation Finish System (EIFS) ma	nufacturers recommend the u	se of a primer. When EIFS			
	manufacturer specifies a primer or if on-site hand testing indicates a primer is perescary Sikaflev®-429 primer is							
	recommended On-site adh	esion testing is recomm	nended v	with final system prior to the star	rt of a job			
A		t	4 +- 20					
Application	Recommended application temperatures between 4 to 38 °C (39 to 100 °F). For cold-weather application, store units at							
	approximately 21 °C (70 °F); remove just prior to using. Make sure joint is frost-free. Cut plastic tip on cartridge to desired							
	joint size. Puncture airtight seal at base of tip. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the							
	nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid							
	overlapping of sealant since this also entraps air. Tool as required. Proper joint design for moving joints is 2:1 width to							
	depth ratio, with a recommended 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum depth of sealant. For non-							
	moving joints, the width to depth ratio can vary. Install with hand or power operated caulking gun. For best performance,							
	Sikaflex [®] -15 LM should be §	gunned into joint when	joint slo	is at mid-point of its designed e	expansion and contraction.			
Clean Un	Uncured material can be re	moved from equinmer	t and too	ls using Sika® Urethane Thinner	and Cleaner, Cured material			
cicali op	can only be removed manu	ally or mechanically. Fr	n remova	of uncured material from hand	ds and consitive surfaces use			
	Sika® Hand Cleaner							
Limitations	 Allow one (1) week to cu 	re under standard con	ditions w	nen using Sikaflex®-15 LM in wa	ter immersion situations and			
	prior to painting.							
	When overcoating with water-, oil- and rubber-based paints, compatibility and adhesion testing is essential.							
	Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)							
	Maximum depth of sealant must not exceed 13 mm (1/2 in); minimum depth is 6 mm (1/4 in).							
	Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar or bituminous substances.							
	Do not apply or cure in the presence of uncured silicone sealants, alcohol and other solvent cleaners.							
	Do not apply when moisture-vapour-transmission condition exists from the substrate as this can cause bubbling within							
	the sealant.							
	Some minimal surface skinning of product may be present in bulk packaging (pails. drums) within its shelf life. Cut and							
	discard cured material to expose the uncured product that still may be used.							
	Use opened cartridges and uni-pac sausages the same day.							
	When applying sealant, avoid air-entrapment.							
	 Since system is moisture-cured, permit sufficient exposure to air. 							
	White colour tends to vellow slightly when exposed to ultraviolet rays.							
	 Light colours can vellow slightly if exposed to direct gas-fired heating elements prior to formation of initial skin 							
	The ultimate performance of Sikafley [®] -15 LM depends on good joint design and proper application to properly							
	nrenared inint surfaces							
	prepareu juint SUI Idles. E Fire stenning and fire registance cortification is based upon specific substrates context metavials and initiate of firmations							
	 Fire-scopping and fire-resistance certification is based upon specific substrates, contact materials and joint configurations. Site Canada must be separated before presending with use of the preduct for such works. 							
	Sika Canada must be consulted before proceeding with use of the product for such works.							
	 The depth of sealant in h Do not to all with state 	orizontal joints subject	to traffic	is 13 mm (1/2 in).				
	Do not tool with deterged	nt or soap solutions.						

Sikaflex®-15 LM CSC Master Format™ 07 92 13 ELASTOMERIC JOINT SEALANTS 2/3





	 The ultimate perform properly prepared at Certain substrates req Although applying set be avoided, it is alw coating will dictate b of the joint. 	nance of Sikaflex®-15 LM depen nd sealed, movement of 100 % uire the use of a primer. Please co ealants over paints, sealers or c ays necessary to test for adhes bond values and possibly the int	ds on good joint design and prope - 50 % can be tolerated. onsult the Sikaflex [®] Primers Product coatings is not recommended wit ion. It should also be recognized egrity of a subsequently applied s	er application. With joint surfaces Data Sheet or contact Sika Canada. hin the industry, where it cannot that the existing paint, sealer or ealant and thus the performance			
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.						
	KEEP OUT OF REACH OF CHILDREN						
	FOR INDUSTRIAL USE ONLY						
	The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and ellivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca						
	SIKA CANADA INC. Head Office 601, avenue Delmar Pointe-Claire, Quebec H9R 4A9	Other locations Toronto Edmonton Vancouver	1-800-933-SIKA www.sika.ca	Certified ISO 9001 (CERT-0102780) Certified ISO 14001 (CERT-0102791)			

